Index to Volume 2

1 is the Winter 1991/92 issue
2 is the Spring 1992 issue
3 is the Summer 1992 issue
4 is the Autumn 1992 issue

AUTHORS

Ammon, Douglas C., Sobel, Richard, Masters, Eugene R., and Riggenbach, Jack D. Immobilizing a Light, Nonaqueous Phase Liquid, No. 1, 19-37

Armstrong, John M., Quinlan, Barbara J., and Korreck, William M. Pure Oxygen-Enhanced Biodegradation for Contaminated Groundwater, No. 4, 427-439

Barich, John J., III, Greene, Joe C., and Peterson, Spencer A. How Chemically Stable is Stabilized Hazardous Waste?, No. 4, 447-458

Behn, Shawn J., White, Michael K., and Pennock, Kelly A. Expert Software that Matches Remediation Site and Strategy, No. 2, 183-198

Bhattacharya, Sanjoy K. How To Engineer Biological Processes that Neutralize Hazardous Wastes, No. 2, 199-210

Bowers, Marvin H. Stabilization and Multimedia Cap for a DOE Mixed Waste Site, No. 3, 311-319

Brown, Jess, Rosenbloom, Jeff, Mock, Peter, Turin, H.J., and Lawson, Peter. Look at Groundwater Quality To Set VOC Cleanup Levels, No. 4, 399-412

Buck, F.A.M., and Seider, E.L. State-of-the-Art VOC Abatement from Soil-Venting Operations, No. 1, 39-50

Carraway, James W., Piotrowski, Michael R., and Doyle, J. Robert. Integrated Bioremediation of Soil and Groundwater at a Superfund Site, No. 3, 293-309

Chan, Paul C., Schuring, John R., and Jurka, Valdis. Pneumatic Fracturing to Remove VOCs, No. 1, 51-68

Cheremisinoff, Paul N., and Goessmann, Glenn. Comparing Groundwater Remediation Options, No. 2, 153-169

Chizzonite, Jan J., Schlesinger, Martin M., and Powell, Christopher D. Translating a Remediation Technology into the Required Air, Water, and RCRA Permits, No. 4, 389-397

Cunningham, Robert, McCabe, Mark M., and Wilkins, James. Managing Petroleum Refining Wastes by Thermal Desorption, No. 1, 3-17

Day, Sue Markland. How Changing Regulations Determine Biotreatment Options for Petroleum Wastes, No. 3, 249-258

Dennis, Ronald M., Lowe, William L., and Wujcik, Walter J. Two Granular-Activated Carbons for Adsorbing Army Explosives, No. 2, 133-152

Doyle, J. Robert, Carraway, James W., and Piotrowski, Michael R. Integrated Bioremediation of Soil and Groundwater at a Superfund Site, No. 3, 293-309

Duvel, William A., Jr. Ten Ways To Control Cleanup Costs, No. 3, 235-247

Evans, Louis A. How To Negotiate Remediation Projects with Regulatory Agencies, No. 2, 105-110

Fischel, Marion, Fraser, John P., and Winfield, Ted P. How Shell Cleaned up a 400,000-Gallon Oil Spill, No. 4, 357-373

Fox, Catherine A. Review of Recent Publications, No. 1, 99-102

Fox, Catherine A. Review of Recent Publications, No. 2, 229-232

Fox, Catherine A. Review of Recent Publications, No. 3, 351-354

Fox, Catherine A. Review of Recent Publications, No. 4, 465-469

Fraser, John P., Winfield, Ted P., and Fischel,

Marion. How Shell Cleaned up a 400,000-Gallon Oil Spill, No. 4, 357-373
Galya, Donald P., and Gerath, Mark. Contaminant Dynamics: Key to Remedial Performance and Regulatory Relief, No. 4, 375-387
Gerath, Mark, and Galya, Donald P. Contaminant Dynamics: Key to Remedial Performance and Regulatory Relief, No. 4, 375-387
Germann, Ray. Proven Methods for Managing Public Perception of Cleanups, No. 3, 321-329
Goessmann, Glenn, and Cheremisinoff, Paul N. Comparing Groundwater Remediation Options, No. 2, 153-169
Greene, Joe C., Peterson, Spencer A., and Barich, John J., III. How Chemically Stable is Stabilized Hazardous Waste?, No. 4, 447-458
Hale, Nancy. From the Editor, No. 1, 1-2
Harrod, Peter E. Remediating Groundwater Using a Hydraulic Containment System for Pump and Treat, No. 1, 69-78
Jacobson, Linda S., and Mears, Connally E. Can In Situ Vitrification Seal Arsenic/Mercury Sludges into a Delisted Glass Monolith?, No. 2, 111-120
Jurka, Valdis, Chan, Paul C., and Schuring, John R. Pneumatic Fracturing to Remove VOCs, No. 1, 51-68
Kerfoot, William B. Defining Contamination Limits with Pneumatic Hammer Soil Probes, No. 3, 259-276
Kohn, Elizabeth J. The Active Role of State Laws in Superfund Cleanups, No. 2, 171-181
Korreck, William M., Armstrong, John M., and Quinlan, Barbara J. Pure Oxygen-Enhanced Biodegradation for Contaminated Groundwater, No. 4, 427-439
LaGoy, Peter K. Why Washington State Has the Best Cleanup Standards Now, No. 3, 331-340
Lawson, Peter, Brown, Jess, Rosenbloom, Jeff, Mock, Peter, and Turin, H.J. Look at Groundwater Quality To Set VOC Cleanup Levels, No. 4, 399-412
Lowe, William L., Wujcik, Walter J., and Dennis, Ronald M. Two Granular-Activated Carbons for Adsorbing Army Explosives, No. 2, 133-152
Marley, Michael C. Removing Gasoline from Soil and Groundwater through Air Sparging, No. 2, 121-131
Martinson, Michael M., and Newman, William A. Let Biodegradation Promote In-Situ Soil Venting, No. 3, 277-291
Masters, Eugene R., Riggenbach, Jack D., Ammon, Douglas C., and Sobel, Richard. Immobilizing a Light, Nonaqueous Phase Liquid, No. 1, 19-37
McCabe, Mark M., Wilkins, James, and Cunningham, Robert. Managing Petroleum Refining Wastes by Thermal Desorption, No. 1, 3-17
McCulloch, John I.B., and Simon, John A. California's Remedial Technology Assessment Program, No. 1, 91-97
McCulloch, John I.B., and Simon, John A. EPA Protocols for Evaluating Pump-and-Treat Performance, No. 3, 341-350
McCulloch, John I.B., and Simon, John A. Simultaneous Groundwater and Soil-Gas Treatment and Recent RODs, No. 2, 219-227
Mears, Connally E., and Jacobson, Linda S. Can In Situ Vitrification Seal Arsenic/Mercury Sludges into a Delisted Glass Monolith?, No. 2, 111-120
Mock, Peter, Turin, H.J., Lawson, Peter, Brown, Jess, and Rosenbloom, Jeff. Look at Groundwater Quality To Set VOC Cleanup Levels, No. 4, 399-412
Newman, William A., and Martinson, Michael M. Let Biodegradation Promote In-Situ Soil Venting, No. 3, 277-291
Pennock, Kelly A., Behn, Shawn J., and White, Michael K. Expert Software that Matches Remediation Site and Strategy, No. 2, 183-198
Peterson, Spencer A., Barich, John J., III, and Greene, Joe C. How Chemically Stable is Stabilized Hazardous Waste?, No. 4, 447-458
Piotrowski, Michael R., Doyle, J. Robert, and Carraway, James W. Integrated Bioremediation of Soil and Groundwater at a Superfund Site, No. 3, 293-309
Powell, Christopher D., Chizzonite, Jan J., and Schlesinger, Martin M. Translating a Remediation Technology into the Required Air, Water, and RCRA Permits, No. 4, 389-397
Quinlan, Barbara J., Korreck, William M., and

Armstrong, John M. Pure Oxygen-Enhanced Biodegradation for Contaminated Groundwater, No. 4, 427-439
Riggenbach, Jack D., Ammon, Douglas C., Sobel, Richard, and Masters, Eugene R. Immobilizing a Light, Nonaqueous Phase Liquid, No. 1, 19-37
Rosenbloom, Andrew. From the Editor, No. 2, 103-104
Rosenbloom, Andrew. From the Editor, No. 3, 233-234
Rosenbloom, Andrew. From the Editor, No. 4, 355-356
Rosenbloom, Jeff, Mock, Peter, Turin, H.J., Lawson, Peter, and Brown, Jess. Look at Groundwater Quality To Set VOC Cleanup Levels, No. 4, 399-412
Schlesinger, Martin M., Powell, Christopher D., and Chizzonite, Jan J. Translating a Remediation Technology into the Required Air, Water, and RCRA Permits, No. 4, 389-397
Schuring, John R., Jurka, Valdis, and Chan, Paul C. Pneumatic Fracturing to Remove VOCs, No. 1, 51-68
Seider, E.L., and Buck, F.A.M. State-of-the-Art VOC Abatement from Soil-Venting Operations, No. 1, 39-50
Simon, John A., and McCulloch, John I.B. California's Remedial Technology Assessment Program, No. 1, 91-97
Simon, John A., and McCulloch, John I.B. EPA Protocols for Evaluating Pump-and-Treat Performance, No. 3, 341-350
Simon, John A., and McCulloch, John I.B. Simultaneous Groundwater and Soil-Gas Treatment and Recent RODs, No. 2, 219-227
Simon, John A., and Wyckoff, John S. In Situ Sampling Surveys Analyzed On-Site in Mobile Laboratories, No. 4, 459-464
Sobel, Richard, Masters, Eugene R., Riggenbach, Jack D., and Ammon, Douglas C. Immobilizing a Light, Nonaqueous Phase Liquid, No. 1, 19-37
Soundararajan, Rengarajan. Environmental Managers Risk Credibility and Results by Ignoring Chemical Science, No. 2, 211-217
Stone, Jimmy, and Yemington, Charles R. Telerobots for Remote Disposal of Mixed Waste, No. 4, 441-446
Turin, H.J., Lawson, Peter, Brown, Jess, Rosenbloom, Jeff, and Mock, Peter. Look at Groundwater Quality to Set VOC Cleanup Levels, No. 4, 399-412
Watts, Richard J. Hydrogen Peroxide for Physicochemically Degrading Petroleum-Contaminated Soils, No. 4, 413-425
White, Michael K., Pennock, Kelly A., and Behn, Shawn J. Expert Software that Matches Remediation Site and Strategy, No. 2, 183-198
Wilkins, James, Cunningham, Robert, and McCabe, Mark M. Managing Petroleum Refining Wastes by Thermal Desorption, No. 1, 3-17
Winfield, Ted P., Fischel, Marion, and Fraser, John P. How Shell Cleaned up a 400,000-Gallon Oil Spill, No. 4, 357-373
Wujcik, Walter J., Dennis, Ronald M., and Lowe, William L. Two Granular-Activated Carbons for Adsorbing Army Explosives, No. 2, 133-152
Wyckoff, John S., and Simon, John A. In Situ Sampling Surveys Analyzed On-Site in Mobile Laboratories, No. 4, 459-464
Yare, Bruce S. Semivolatile Organic Decay Rates in Pilot-Scale Solid- and Slurry-Phase Bioreactors, No. 1, 79-89
Yemington, Charles R., and Stone, Jimmy. Telerobots for Remote Disposal of Mixed Waste, No. 4, 441-446

AIR SPARGING

Removing Gasoline from Soil and Groundwater through Air Sparging, Michael C. Marley, No. 2, 121-131

BIOREMEDIATION

How Changing Regulations Determine Biotreatment Options for Petroleum Wastes, Sue Markland Day, No. 3, 249-258
How To Engineer Biological Processes that Neutralize Hazardous Wastes, Sanjoy K. Bhattacharya, No. 2, 199-210
Integrated Bioremediation of Soil and Groundwater at a Superfund Site, Michael R. Piotrowski, J. Robert Doyle, and James W.

Carraway, No. 3, 293-309
Semivolatile Organic Decay Rates in Pilot-Scale Solid- and Slurry-Phase Bioreactors, Bruce S. Yare, No. 1, 79-89

Literature Reviewed
Bioremediation in the Field: An Information Update on Applying Bioremediation to Site Cleanup, Bioremediation Field Initiative, No. 1, 100
Environmental Biotechnology for Waste Treatment, Sayler, Fox, and Blackburn, No. 2, 230

CERCLA
The Active Role of State Laws in Superfund Cleanups, Elizabeth J. Kohn, No. 2, 171-181

Literature Reviewed
Guide for Conducting Treatability Studies Under CERCLA: Aerobic Biodegradation Remedy Screening, EPA, Office of Research and Development, No. 2, 230-231

CONTAMINANT DYNAMICS
Contaminant Dynamics: A Key to Remedial Performance and Regulatory Relief, Mark Gerath and Donald P. Galya, No. 4, 375-387

CONTAMINATED SEDIMENTS REMEDIATION
Literature Reviewed
Remediation of Contaminated Sediments Handbook, EPA, Office of Research and Development, No. 1, 100-101

COSTS
Ten Ways To Control Cleanup Costs, William A. Duvel, Jr., No. 3, 235-247

Literature Reviewed
Scoper's Notes: An RI/FS Costing Guide, EPA, Office of Solid Waste and Emergency Response, No. 3, 353-354

EXPLOSIVES CONTAMINATION
Two Granular-Activated Carbons for Adsorbing Army Explosives, Ronald M. Dennis, William L. Lowe, and Walter J. Wujcik, No. 2, 133-152

Literature Reviewed
Treatment of Explosives Contaminated Sludge, Garg, Grasso, and Hoag (*Hazardous Waste and Hazardous Materials*), No. 3, 351-352

FORUM
Environmental Managers Risk Credibility and Results by Ignoring Chemical Science, Rengarajan Soundararajan, No. 2, 211-217
Why Washington State Has the Best Cleanup Standards Now, Peter K. LaGoy, No. 3, 331-340

GROUNDWATER REMEDIATION
Comparing Groundwater Remediation Options, Paul N. Cheremisinoff and Glenn Goessmann, No. 2, 153-169
Integrated Bioremediation of Soil and Groundwater at a Superfund Site, Michael R. Piotrowski, J. Robert Doyle, and James W. Carraway, No. 3, 293-309
Pure Oxygen-Enhanced Biodegradation for Contaminated Groundwater, Barbara J. Quinlan, William M. Korreck, and John M. Armstrong, No. 4, 427-439
Remediating Groundwater Using a Hydraulic Containment System for Pump and Treat, Peter E. Harrod, No. 1, 69-78
Removing Gasoline from Soil and Groundwater through Air Sparging, Michael C. Marley, No. 2, 121-131
Two Granular-Activated Carbons for Adsorbing Army Explosives, Ronald M. Dennis, William L. Lowe, and Walter J. Wujcik, No. 2, 133-152

Literature Reviewed
Biodegradation of Creosote and Pentachlorophenol in Contaminated Groundwater: Chemical and Biological Assessment, Mueller, Middaugh, Lantz, and Chapman (*Applied and Environmental Microbiology*), No. 1, 99

HAZARDOUS WASTE
How Chemically Stable is Stabilized Hazardous Waste?, Spencer A. Peterson, John J. Barich, III, and Joe C. Greene, No. 4, 447-458

Literature Reviewed
Guide to Treatment Technologies for Hazardous

Wastes at Superfund Sites, EPA, Office of Environmental Engineering and Technology Demonstration, No. 3, 353

Handbook on In Situ Treatment of Hazardous Waste-Contaminated Soils, EPA, Risk Reduction Engineering Laboratory, No. 2, 231

IN SITU VITRIFICATION

Can In Situ Vitrification Seal Arsenic/Mercury Sludges into a Delisted Glass Monolith?, Linda S. Jacobson and Connally E. Mears, No. 2, 111-120

MIXED WASTE

Stabilization and Multimedia Cap for a DOE Mixed Waste Site, Marvin H. Bowers, No. 3, 311-319

Telerobots for Remote Disposal of Mixed Waste, Charles R. Yemington and Jimmy Stone, No. 4, 000-000

NONAQUEOUS PHASE LIQUIDS

Immobilizing a Light, Nonaqueous Phase Liquid, Eugene R. Masters, Jack D. Riggenbach, Douglas C. Ammon, and Richard Sobel, No. 1, 19-37

OIL SPILL REMEDIATION

How Shell Cleaned up a 400,000-Gallon Oil Spill, Marion Fischel, John P. Fraser, and Ted P. Winfield, No. 4, 357-373

ORGANIC DECAY

Semivolatile Organic Decay Rates in Pilot-Scale Solid- and Slurry-Phase Bioreactors, Bruce S. Yare, No. 1, 79-89

PCBs

Literature Reviewed

Polychlorinated Biphenyls (PCBs)—Regulations and Treatment Technologies, D.E. McCoy and Associates, Inc. (*The Hazardous Waste Consultant*), No. 4, 465-469

PERMITS

Translating a Remediation Technology into the Required Air, Water, and RCRA Permits, Jan J. Chizzonite, Martin M. Schlesinger, and Christopher D. Powell, No. 4, 389-397

PETROLEUM CONTAMINATION

How Changing Regulations Determine Biotreatment Options for Petroleum Wastes, Sue Markland Day, No. 3, 249-258

Hydrogen Peroxide for Physicochemically Degrading Petroleum-Contaminated Soils, Richard J. Watts, No. 4, 413-425

Managing Petroleum Refining Wastes by Thermal Desorption, Mark M. McCabe, James Wilkins, and Robert Cunningham, No. 1, 3-17

PROJECT NEGOTIATION

How To Negotiate Remediation Projects with Regulatory Agencies, Louis A. Evans, No. 2, 105-110

PUBLIC RELATIONS

Proven Methods for Managing Public Perception of Cleanups, Ray Germann, No. 3, 321-329

RADIOLOGICAL CONTAMINATION

Literature Reviewed

Assessment of Technologies for the Remediation of Radioactively Contaminated Superfund Sites, EPA, Office of Solid Waste and Emergency Response, No. 1, 101

Technological Approaches to the Cleanup of Radiologically Contaminated Superfund Sites, EPA, Office of Research and Development, No. 2, 231-232

RECENT DEVELOPMENTS IN CLEANUP TECHNOLOGIES

California's Remedial Technology Assessment Program, John A. Simon and John I.B. McCulloch, No. 1, 91-97

EPA Protocols for Evaluating Pump-and-Treat Performance, John A. Simon and John I.B. McCulloch, No. 3, 341-350

In Situ Sampling Surveys Analyzed On-Site in Mobile Laboratories, John S. Wyckoff and John A. Simon, No. 4, 459-464

Simultaneous Groundwater and Soil-Gas Treatment and Recent RODs, John A. Simon and John I.B. McCulloch, No. 2, 219-227

SEDIMENT QUALITY CRITERIA
Literature Reviewed
Technical Basis for Establishing Sediment Quality Criteria for Nonionic Organic Chemicals Using Equilibrium Partitioning, DiToro, Zarba, Hansen, Berry, Swartz, Cowan, Pavlou, Allen, Thomas, and Paquin (*Environmental Toxicology and Chemistry*), No. 3, 351

SITE PROGRAM
Literature Reviewed
EPA SITE Demonstration of Biotrol Aqueous Treatment System, Stinson, Skovronek, and Chresand (*Journal of the Air and Waste Management Association*), No. 2, 229
HAZCON: Solidification Process, Douglassville, PA. Applications Analysis Report, EPA, Office of Research and Development, No. 1, 101-102
Solidification/Stabilization Process Technology Evaluation Report, EPA, Risk Reduction Engineering Laboratory, No. 3, 354
Terra Vac In Situ Vacuum Extraction System. Applications Analysis Report, EPA, Office of Research and Development, No. 1, 102

SOIL REMEDIATION
Hydrogen Peroxide for Physicochemically Degrading Petroleum-Contaminated Soils, Richard J. Watts, No. 4, 413-425
Integrated Bioremediation of Soil and Groundwater at a Superfund Site, Michael R. Piotrowski, J. Robert Doyle, and James W. Carraway, No. 3, 293-309
Let Biodegradation Promote In-Situ Soil Venting, William A. Newman and Michael M. Martinson, No. 3, 277-291
Removing Gasoline from Soil and Groundwater through Air Sparging, Michael C. Marley, No. 2, 121-131

Literature Reviewed
Effect of Surfactants at Low Concentrations on the Desorption and Biodegradation of Sorbed Aromatic Compounds in Soil, Aronstein, Calvillo, and Alexander (*Environmental Science and Technology*), No. 1, 99-100
Handbook on In Situ Treatment of Hazardous Waste-Contaminated Soils, EPA, Risk Reduction Engineering Laboratory, No. 2, 231
Interaction of Quicklime with Polychlorobiphenyl-Contaminated Solids, Sedlak, Dean, Armstrong, and Andren (*Environmental Science and Technology*), No. 2, 229-230

SOIL-VENTING OPERATIONS
State-of-the-Art VOC Abatement from Soil-Venting Operations, F.A.M. Buck and E.L. Seider, No. 1, 39-50

STATE LAWS
The Active Role of State Laws in Superfund Cleanups, Elizabeth J. Kohn, No. 2, 171-181

TECHNOLOGY
Expert Software that Matches Remediation Site and Strategy, Kelly A. Pennock, Shawn J. Behn, and Michael K. White, No. 2, 183-198
Telerobots for Remote Disposal of Mixed Waste, Charles R. Yemington and Jimmy Stone, No. 4, 441-446

Literature Reviewed
Assessment of Technologies for the Remediation of Radioactively Contaminated Superfund Sites, EPA, Office of Solid Waste and Emergency Response, No. 1, 101
Commercializing Innovative Cleanup Technologies, Berkowitz and Farkas (*Environmental Science and Technology*), No. 3, 352
Environment and Industry Digest, Brooks, ed., No. 3, 353
Technological Approaches to the Cleanup of Radiologically Contaminated Superfund Sites, EPA, Office of Research and Development, No. 2, 231-232

THERMAL DESORPTION
Managing Petroleum Refining Wastes by Thermal Desorption, Mark M. McCabe, James Wilkins, and Robert Cunningham, No. 1, 3-17

UNDERGROUND STORAGE TANKS
Defining Contamination Limits with Pneumatic

Hammer Soil Probes, William B. Kerfoot, No. 3, 259-276

VOLATILE ORGANIC COMPOUNDS

Look at Groundwater Quality to Set VOC Cleanup Levels, Jeff Rosenbloom, Peter Mock, H.J. Turin, Peter Lawson, and Jess Brown. No. 4, 399-412

Pneumatic Fracturing to Remove VOCs, John R. Schuring, Valdis Jurka, and Paul C. Chan, No. 1, 51-68

State-of-the-Art VOC Abatement from Soil-Venting Operations, F.A.M. Buck and E.L. Seider, No. 1, 39-50

WASTE TREATMENT

Literature Reviewed

Environmental Biotechnology for Waste Treatment, Sayler, Fox, and Blackburn, No. 2, 230

WATER REMEDIATION

Literature Reviewed

Technical and Economic Feasibility of Ultra-High Lime Treatment of Recycled Cooling Water, Batchelor, Lasala, McDevitt, and Peacock (*Research Journal of the Water Pollution Control Federation*), No. 3, 352